

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG091120\  
 Data File : BG046597.D  
 Acq On : 11 Sep 2020 15:25  
 Operator : CG/JU  
 Sample : PB131544BL  
 Misc :  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :

Quant Time: Sep 11 16:28:23 2020  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG082520.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Sep 02 15:06:53 2020  
 Response via : Initial Calibration

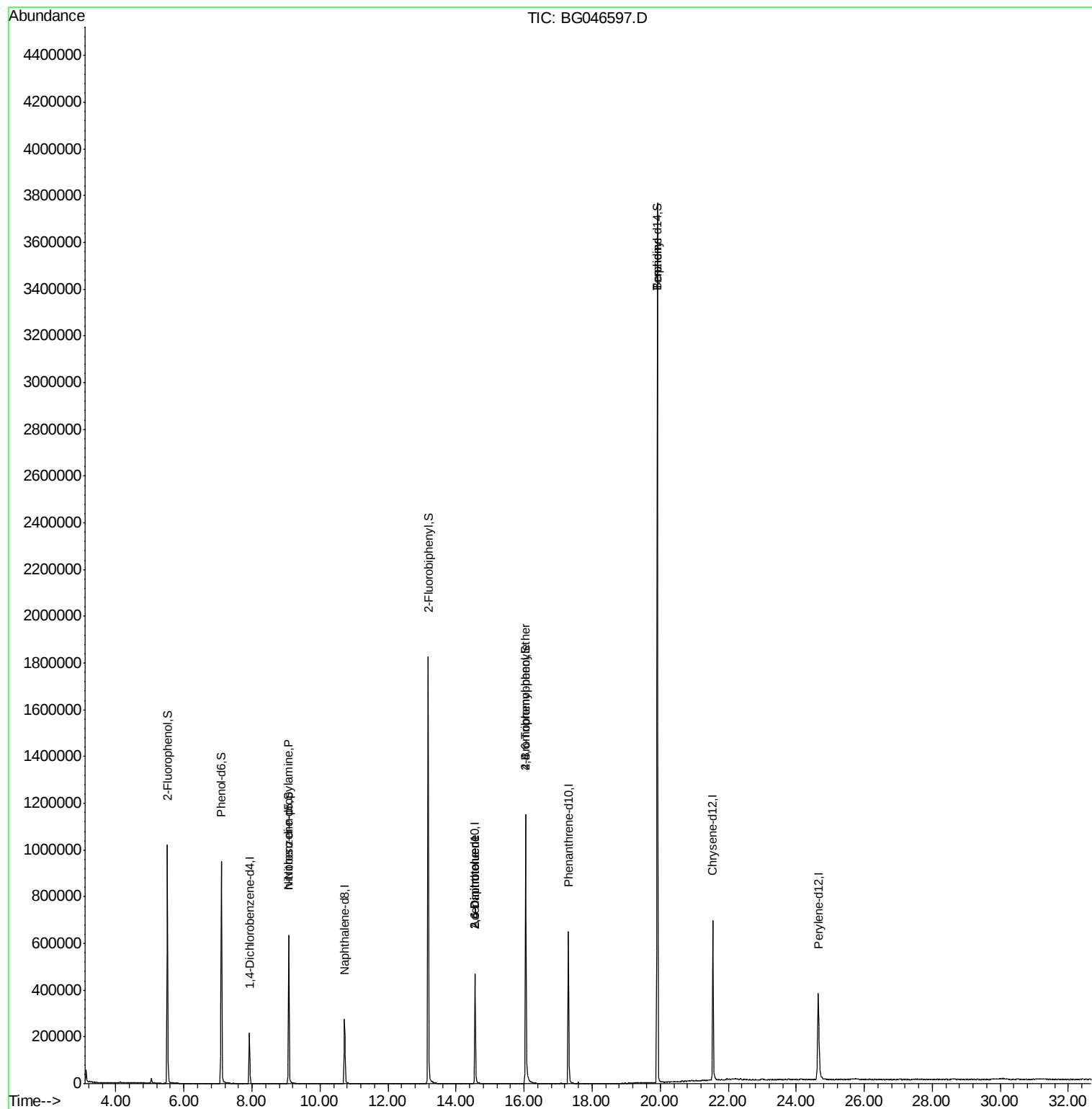
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 7.93  | 152  | 68379    | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8             | 10.72 | 136  | 272952   | 20.00  | ng    | 0.00     |
| 39) Acenaphthene-d10           | 14.56 | 164  | 189944   | 20.00  | ng    | 0.00     |
| 64) Phenanthrene-d10           | 17.30 | 188  | 463557   | 20.00  | ng    | 0.00     |
| 76) Chrysene-d12               | 21.55 | 240  | 477239   | 20.00  | ng    | 0.00     |
| 86) Perylene-d12               | 24.65 | 264  | 461658   | 20.00  | ng    | -0.01    |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.51  | 112  | 479841   | 124.29 | ng    | 0.00     |
| 7) Phenol-d6                   | 7.10  | 99   | 608897   | 111.26 | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 9.08  | 82   | 406660   | 85.15  | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol       | 16.04 | 330  | 286717   | 111.41 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl           | 13.18 | 172  | 1105316  | 88.83  | ng    | 0.00     |
| 79) Terphenyl-d14              | 19.92 | 244  | 1718138  | 76.62  | ng    | 0.00     |
| Target Compounds               |       |      |          |        |       |          |
| 19) n-Nitroso-di-n-propylamine | 9.08  | 70   | 51451    | 15.717 | ng    | # 76     |
| 51) 2,6-Dinitrotoluene         | 14.56 | 165  | 25326    | 7.818  | ng    | # 34     |
| 57) 2,4-Dinitrotoluene         | 14.56 | 165  | 25326    | 5.483  | ng    | # 34     |
| 67) 4-Bromophenyl-phenylether  | 16.04 | 248  | 21733    | 4.019  | ng    | # 1      |
| 77) Benzidine                  | 19.92 | 184  | 26129    | 2.356  | ng    | # 95     |

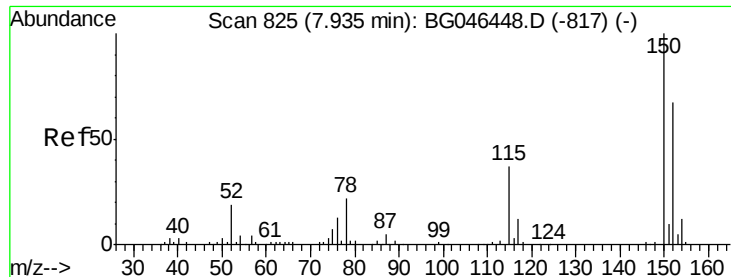
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG091120\  
Data File : BG046597.D  
Acq On : 11 Sep 2020 15:25  
Operator : CG/JU  
Sample : PB131544BL  
Misc :  
ALS Vial : 5 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :

Quant Time: Sep 11 16:28:23 2020  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG082520.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Sep 02 15:06:53 2020  
Response via : Initial Calibration



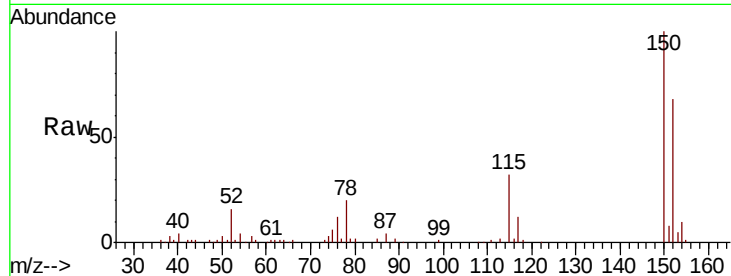


#1

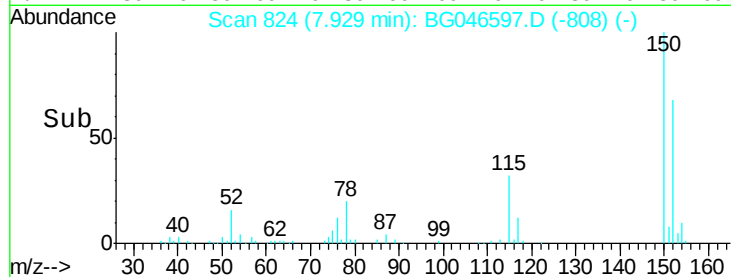
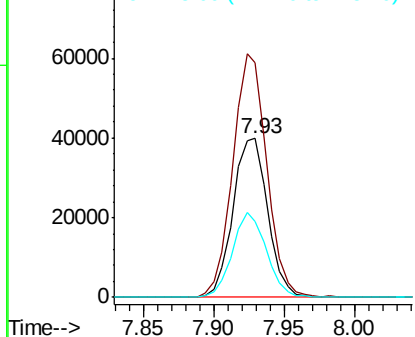
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 7.93 min Scan# 824  
Delta R.T. -0.01 min  
Lab File: BG046597.D  
Acq: 11 Sep 2020 15:25

Instrument :  
BNA\_G  
ClientSampleId :

Tot Ion:152 Resp: 68379  
Ion Ratio Lower Upper  
152 100  
150 148.0 119.5 179.3  
115 47.6 44.3 66.5



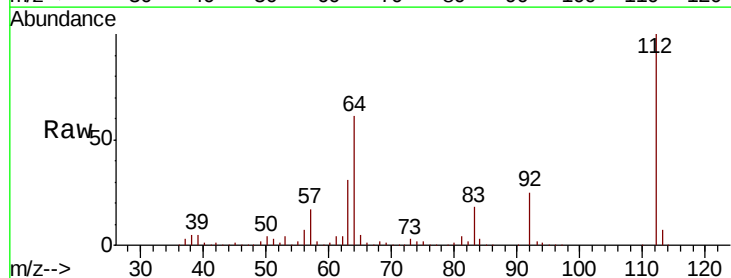
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



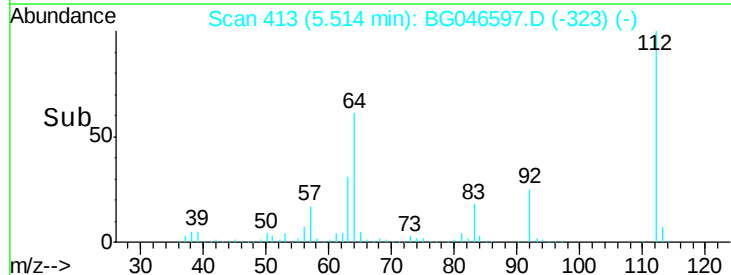
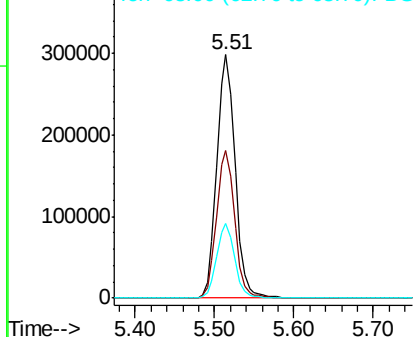
#5

2-Fluorophenol  
Concen: 124.291 ng  
RT: 5.51 min Scan# 413  
Delta R.T. 0.00 min  
Lab File: BG046597.D  
Acq: 11 Sep 2020 15:25

Tgt Ion:112 Resp: 479841  
Ion Ratio Lower Upper  
112 100  
64 60.6 47.0 70.6  
63 30.6 23.5 35.3



Abundance Ion 112.00 (111.70 to 112.70): E  
Ion 64.00 (63.70 to 64.70): BG0  
Ion 63.00 (62.70 to 63.70): BG0





#7

Phenol-d6

Concen: 111.258 ng

RT: 7.10 min Scan# 683

Delta R.T. -0.01 min

Lab File: BG046597.D

Acq: 11 Sep 2020 15:25

Instrument :

BNA\_G

ClientSampleId :

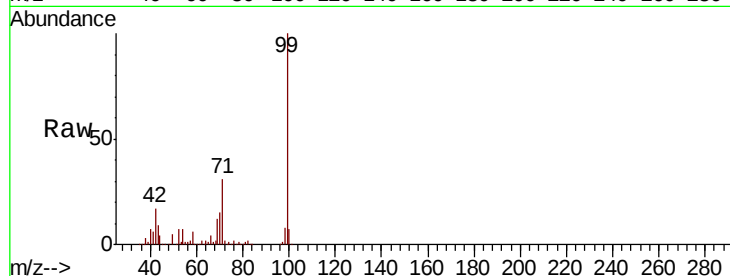
Tot Ion: 99 Resp: 608897

Ion Ratio Lower Upper

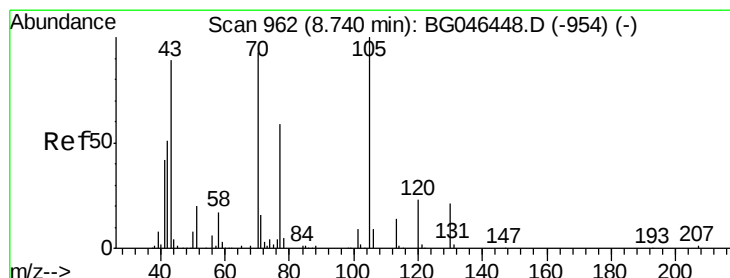
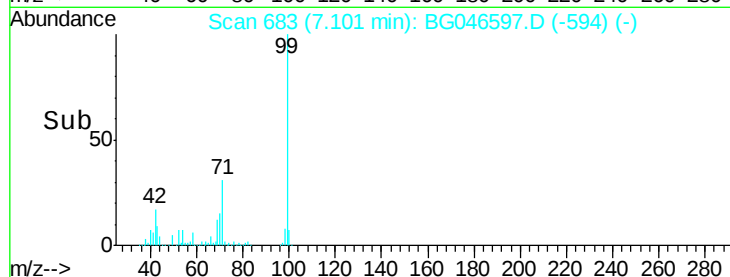
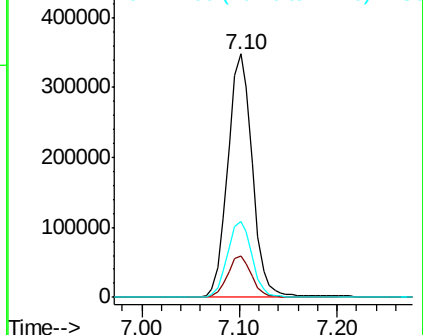
99 100

42 16.8 13.3 19.9

71 31.2 25.3 37.9



Abundance Ion 99.00 (98.70 to 99.70): BGC  
Ion 42.00 (41.70 to 42.70): BGC  
Ion 71.00 (70.70 to 71.70): BGC



#19

n-Nitroso-di-n-propylamine

Concen: 15.717 ng

RT: 9.08 min Scan# 1020

Delta R.T. 0.35 min

Lab File: BG046597.D

Acq: 11 Sep 2020 15:25

Tgt Ion: 70 Resp: 51451

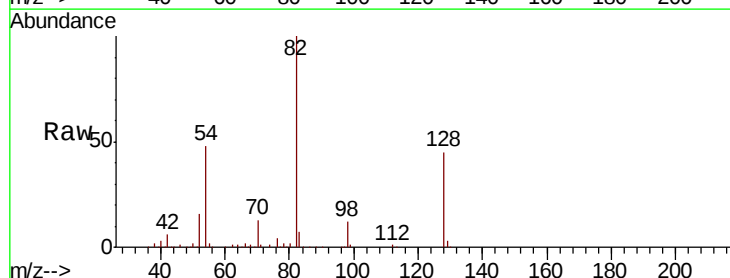
Ion Ratio Lower Upper

70 100

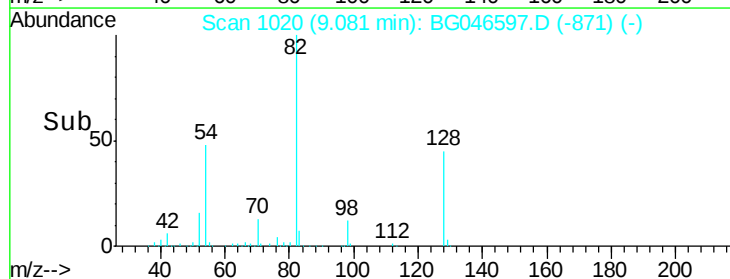
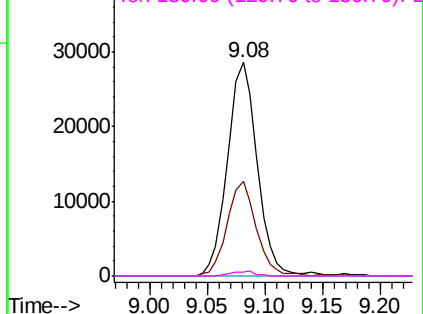
42 44.2 44.2 66.2

101 0.0 7.8 11.8#

130 1.9 18.2 27.4#



Abundance Ion 70.00 (69.70 to 70.70): BGC  
Ion 42.00 (41.70 to 42.70): BGC  
Ion 101.00 (100.70 to 101.70): BGC  
Ion 130.00 (129.70 to 130.70): BGC

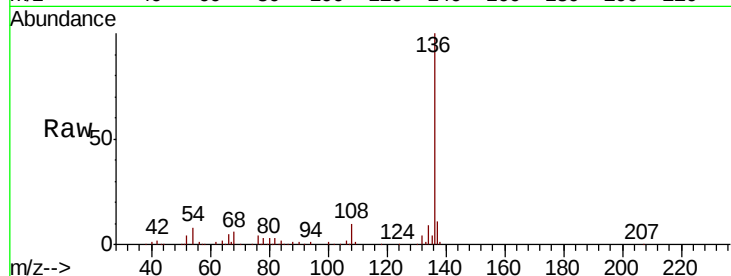




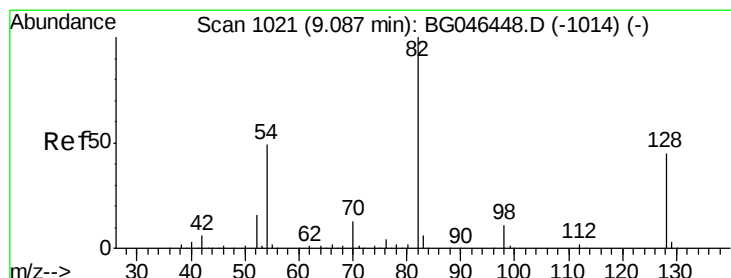
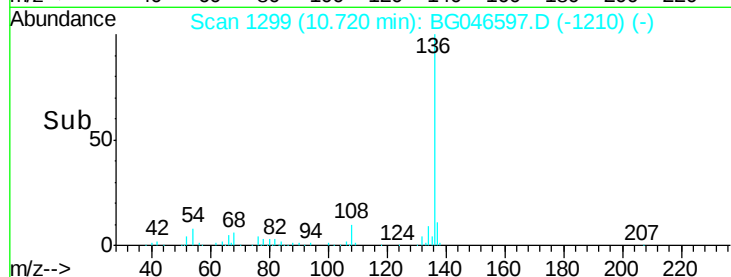
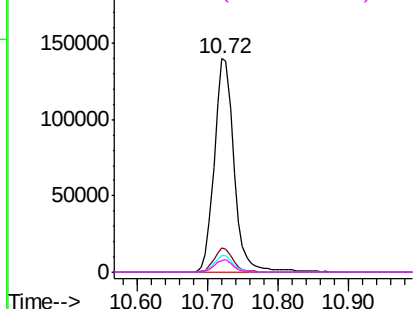
#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.72 min Scan# 1299  
Delta R.T. -0.01 min  
Lab File: BG046597.D  
Acq: 11 Sep 2020 15:25

Instrument :  
BNA\_G  
ClientSampleId :

|             |       |        |  |
|-------------|-------|--------|--|
| Tot Ion:136 | Resp: | 272952 |  |
| Ion Ratio   | Lower | Upper  |  |
| 136 100     |       |        |  |
| 137 11.5    | 8.8   | 13.2   |  |
| 54 7.9      | 6.1   | 9.1    |  |
| 68 5.7      | 4.8   | 7.2    |  |

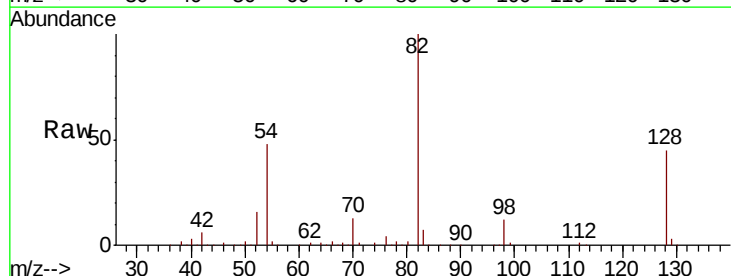


Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BGC  
Ion 68.00 (67.70 to 68.70): BGC

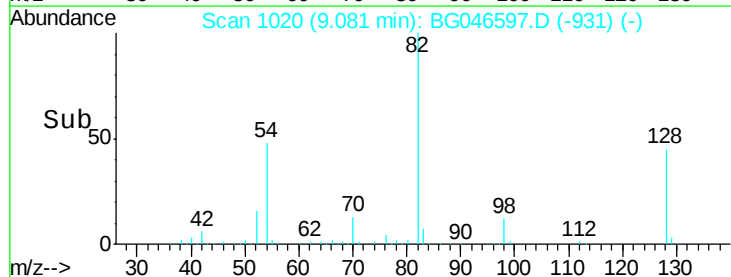
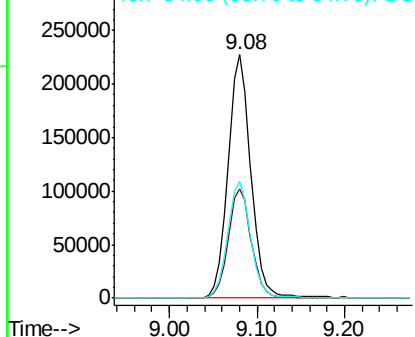


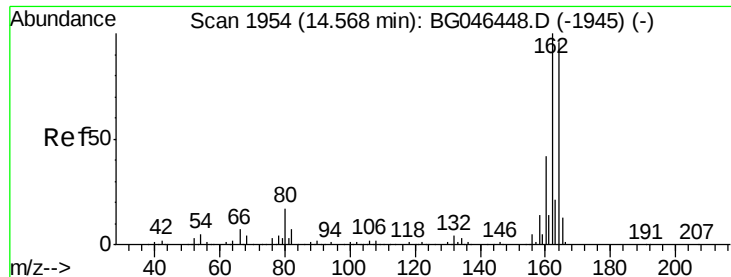
#23  
Nitrobenzene-d5  
Concen: 85.153 ng  
RT: 9.08 min Scan# 1020  
Delta R.T. -0.01 min  
Lab File: BG046597.D  
Acq: 11 Sep 2020 15:25

|             |              |
|-------------|--------------|
| Tgt Ion: 82 | Resp: 406660 |
| Ion Ratio   | Lower Upper  |
| 82 100      |              |
| 128 44.7    | 35.7 53.5    |
| 54 48.1     | 39.4 59.0    |



Abundance Ion 82.00 (81.70 to 82.70): BGC  
Ion 128.00 (127.70 to 128.70): E  
Ion 54.00 (53.70 to 54.70): BGC





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.56 min Scan# 1952

Delta R.T. -0.01 min

Lab File: BG046597.D

Acq: 11 Sep 2020 15:25

Instrument :

BNA\_G

ClientSampleId :

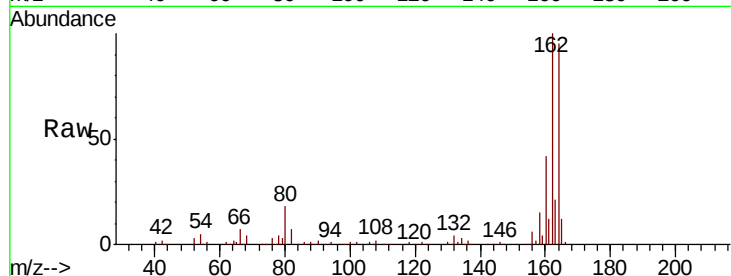
Tot Ion:164 Resp: 189944

Ion Ratio Lower Upper

164 100

162 104.9 83.3 124.9

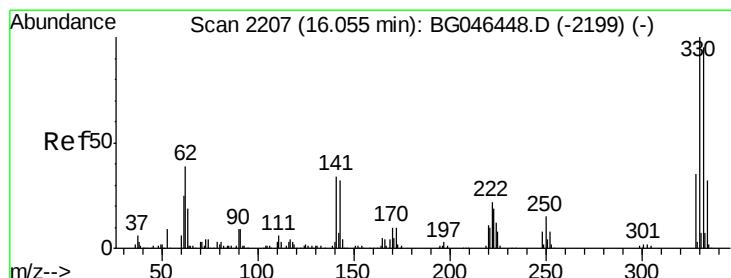
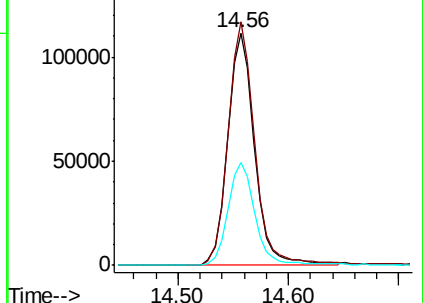
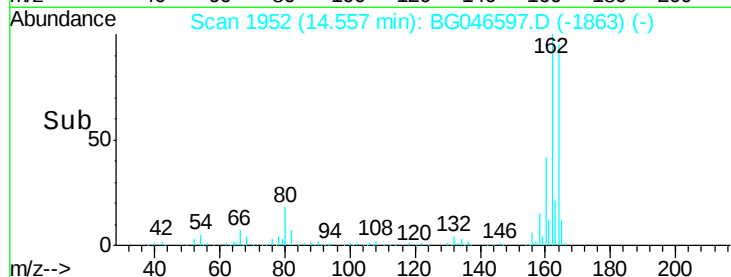
160 44.3 35.0 52.6



Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E



#42

2,4,6-Tribromophenol

Concen: 111.407 ng

RT: 16.04 min Scan# 2205

Delta R.T. -0.01 min

Lab File: BG046597.D

Acq: 11 Sep 2020 15:25

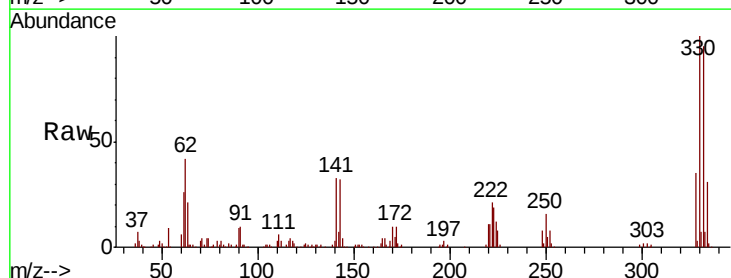
Tgt Ion:330 Resp: 286717

Ion Ratio Lower Upper

330 100

332 96.7 76.1 114.1

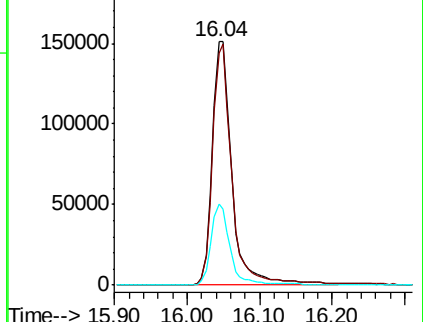
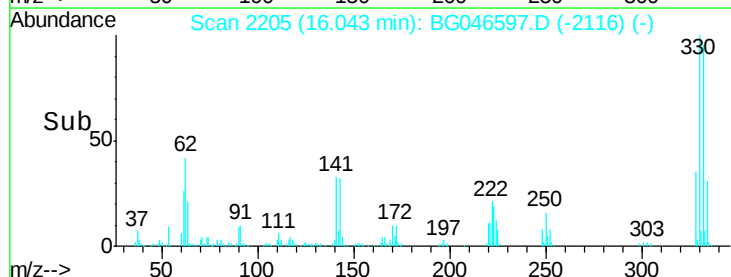
141 32.4 26.1 39.1

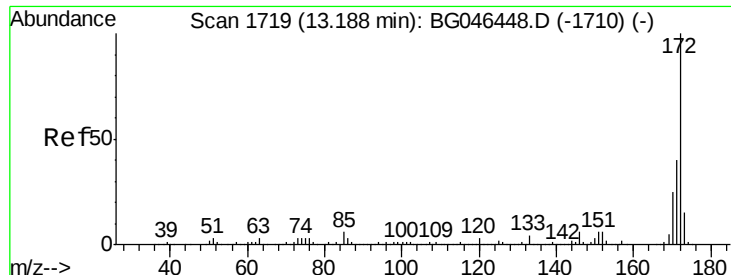


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E



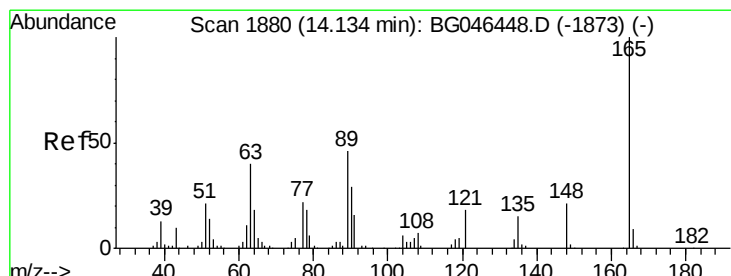
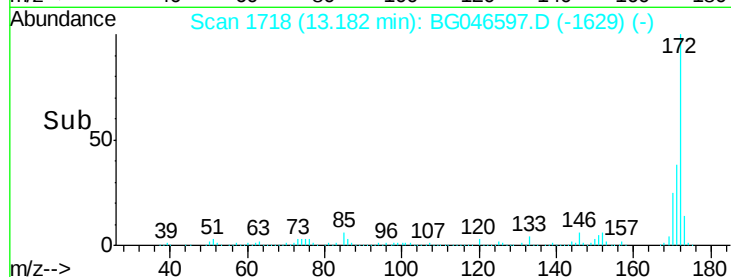
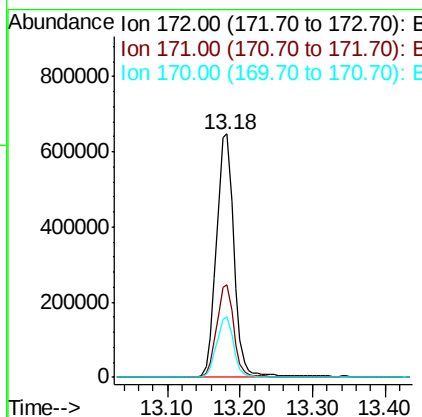
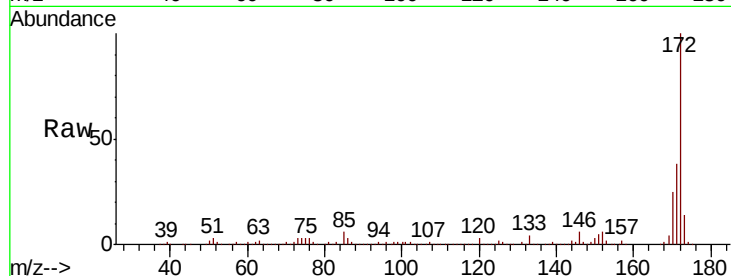


#45  
 2-Fluorobiphenyl  
 Concen: 88.833 ng  
 RT: 13.18 min Scan# 1718  
 Delta R.T. -0.01 min  
 Lab File: BG046597.D  
 Acq: 11 Sep 2020 15:25

Instrument :  
 BNA\_G  
 ClientSampleId :

Tot Ion:172 Resp: 1105316  

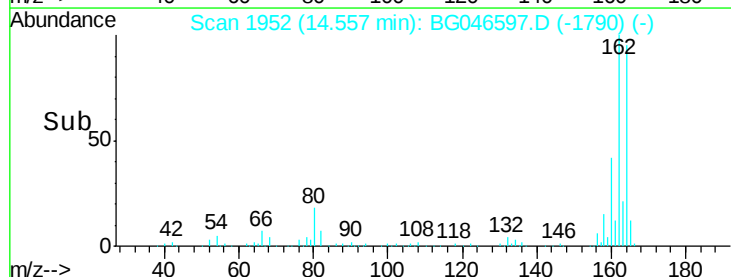
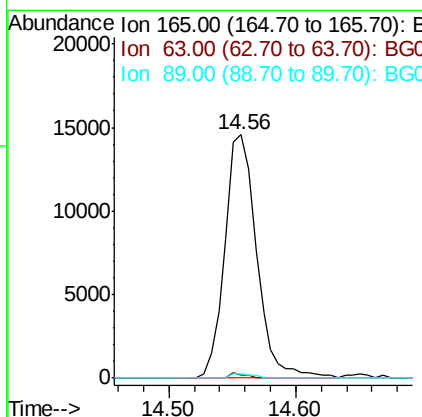
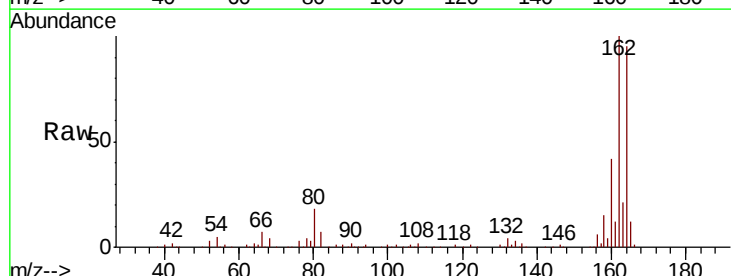
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 172 | 100   |       |       |
| 171 | 38.1  | 31.8  | 47.6  |
| 170 | 24.8  | 20.3  | 30.5  |

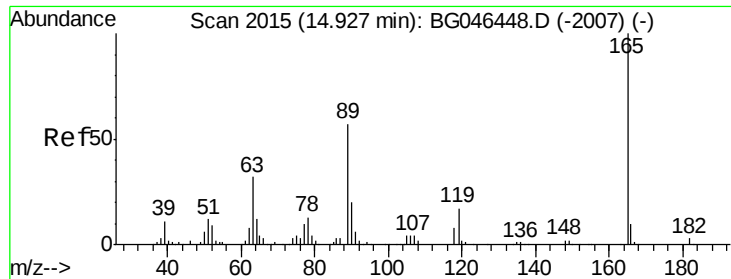


#51  
 2,6-Dinitrotoluene  
 Concen: 7.818 ng  
 RT: 14.56 min Scan# 1952  
 Delta R.T. 0.42 min  
 Lab File: BG046597.D  
 Acq: 11 Sep 2020 15:25

Tgt Ion:165 Resp: 25326  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 165 | 100   |       |       |
| 63  | 1.1   | 34.2  | 51.4# |
| 89  | 1.7   | 37.0  | 55.4# |

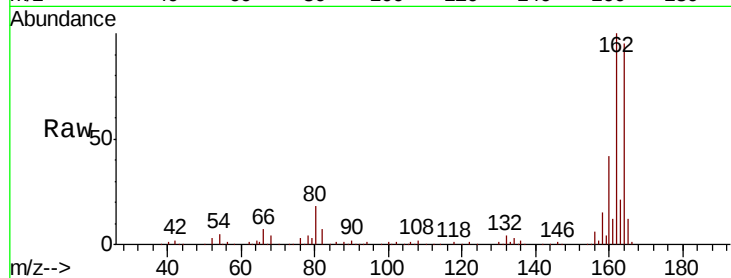




#57  
 2,4-Dinitrotoluene  
 Concen: 5.483 ng  
 RT: 14.56 min Scan# 1952  
 Delta R.T. -0.37 min  
 Lab File: BG046597.D  
 Acq: 11 Sep 2020 15:25

Instrument :  
 BNA\_G  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 1.1   | 25.4  | 38.0# |
| 89      | 1.7   | 45.9  | 68.9# |
| 182     | 0.0   | 2.3   | 3.5#  |

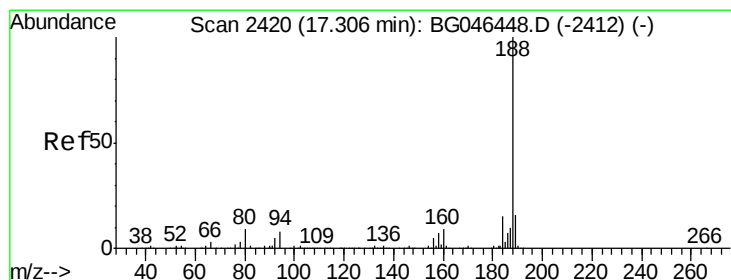
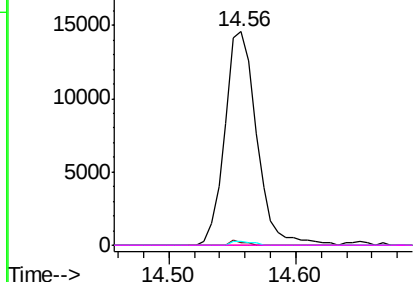
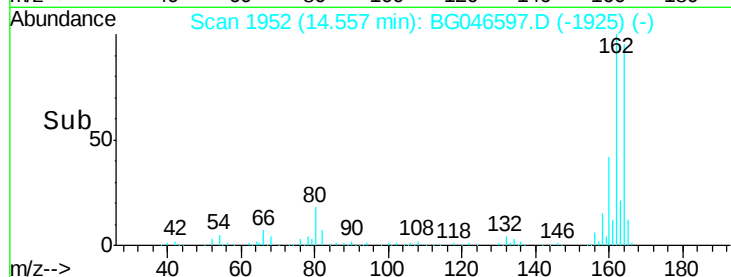


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BGC

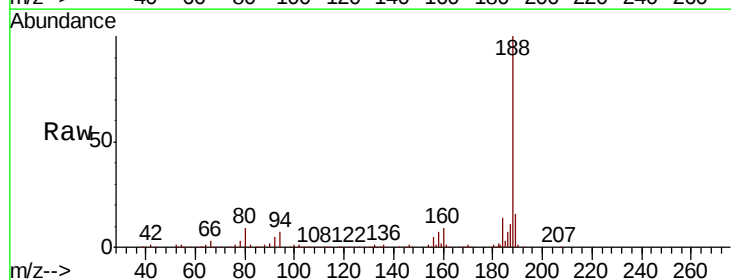
Ion 89.00 (88.70 to 89.70): BGC

Ion 182.00 (181.70 to 182.70): E



#64  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 17.30 min Scan# 2419  
 Delta R.T. -0.01 min  
 Lab File: BG046597.D  
 Acq: 11 Sep 2020 15:25

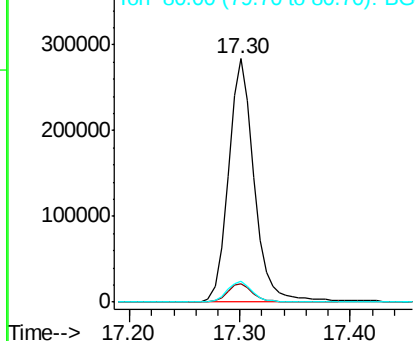
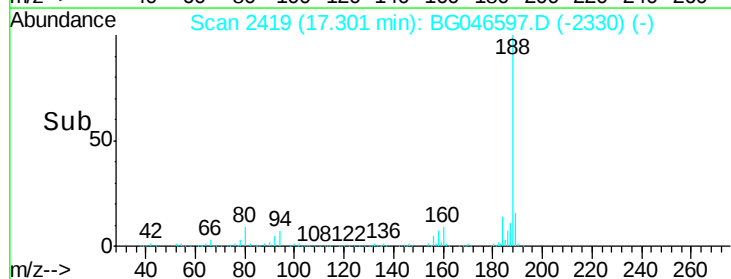
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 7.4   | 6.3   | 9.5   |
| 80      | 8.6   | 6.9   | 10.3  |

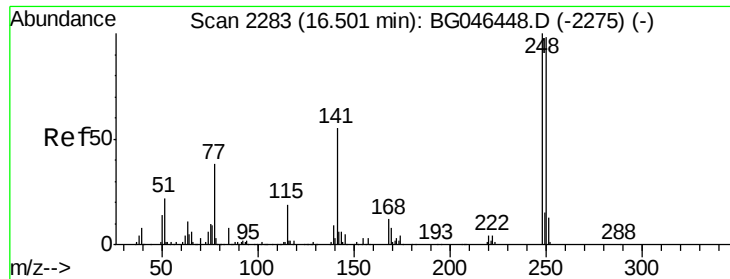


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BGC

Ion 80.00 (79.70 to 80.70): BGC

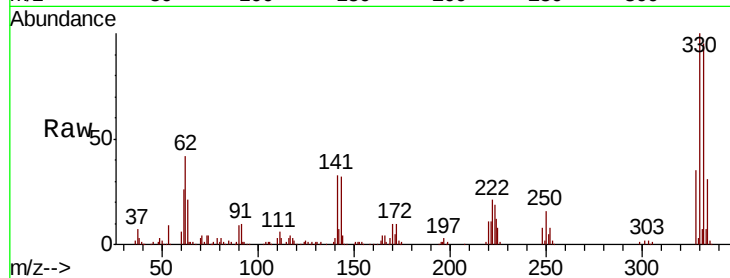




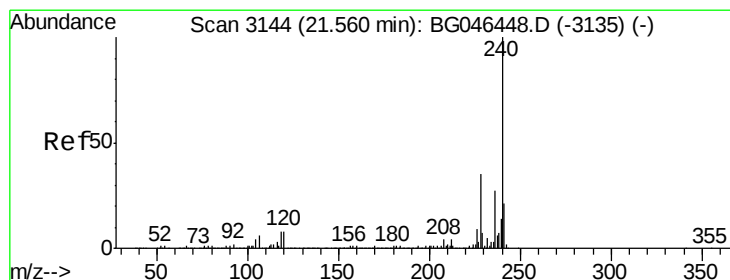
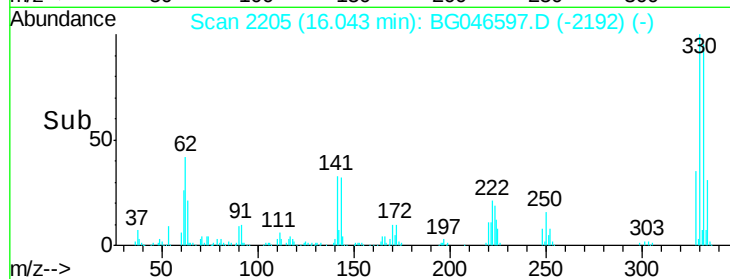
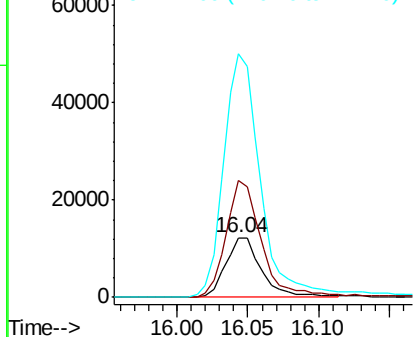
#67  
 4-Bromophenyl-phenylether  
 Concen: 4.019 ng  
 RT: 16.04 min Scan# 2205  
 Delta R.T. -0.45 min  
 Lab File: BG046597.D  
 Acq: 11 Sep 2020 15:25

Instrument :  
 BNA\_G  
 ClientSampleId :

Tot Ion:248 Resp: 21733  
 Ion Ratio Lower Upper  
 248 100  
 250 194.5 78.6 118.0#  
 141 406.4 43.9 65.9#

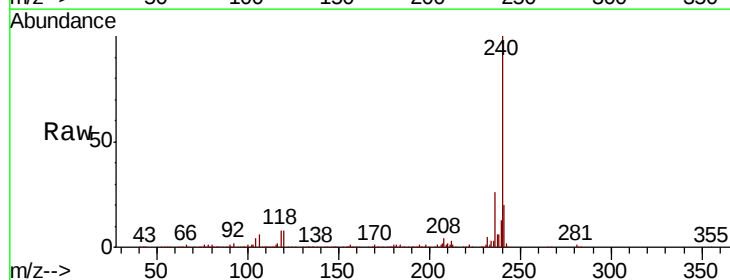


Abundance Ion 248.00 (247.70 to 248.70): E  
 Ion 250.00 (249.70 to 250.70): E  
 Ion 141.00 (140.70 to 141.70): E

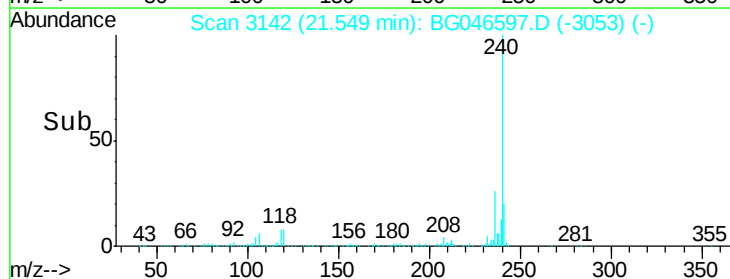
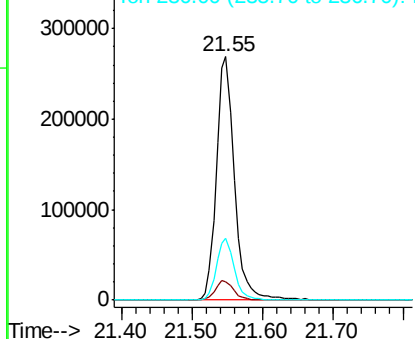


#76  
 Chrysene-d12  
 Concen: 20.000 ng  
 RT: 21.55 min Scan# 3142  
 Delta R.T. -0.01 min  
 Lab File: BG046597.D  
 Acq: 11 Sep 2020 15:25

Tgt Ion:240 Resp: 477239  
 Ion Ratio Lower Upper  
 240 100  
 120 7.7 6.6 10.0  
 236 25.5 21.4 32.2



Abundance Ion 240.00 (239.70 to 240.70): E  
 Ion 120.00 (119.70 to 120.70): E  
 Ion 236.00 (235.70 to 236.70): E





#77

Benzidine

Concen: 2.356 ng

RT: 19.92 min Scan# 2864

Delta R.T. 0.38 min

Lab File: BG046597.D

Acq: 11 Sep 2020 15:25

Instrument :

BNA\_G

ClientSampled :

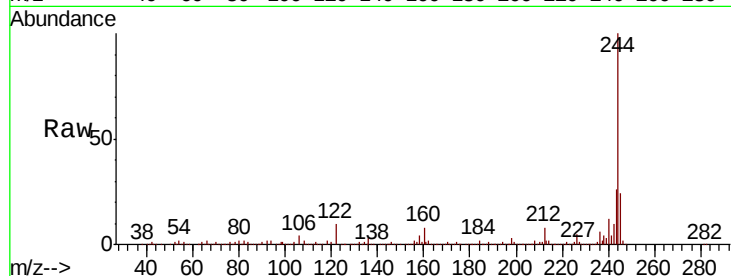
Tot Ion:184 Resp: 26129

Ion Ratio Lower Upper

184 100

185 18.4 11.8 17.8#

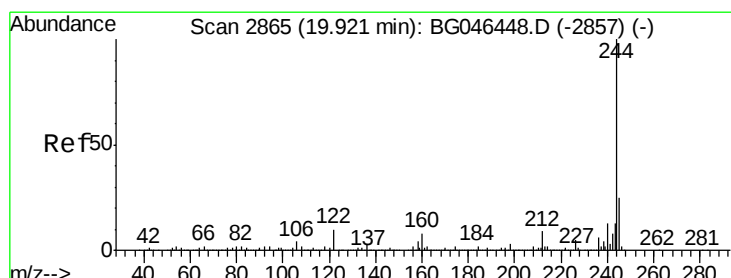
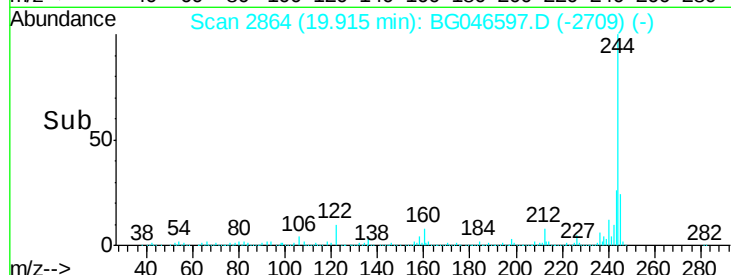
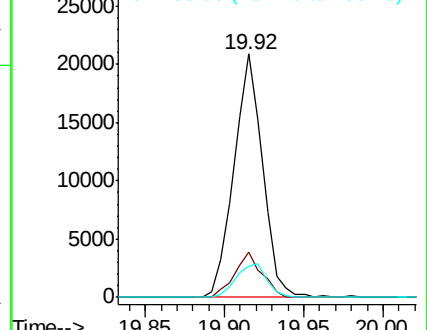
183 13.0 10.7 16.1



Abundance Ion 184.00 (183.70 to 184.70): E

Ion 185.00 (184.70 to 185.70): E

Ion 183.00 (182.70 to 183.70): E



#79

Terphenyl-d14

Concen: 76.618 ng

RT: 19.92 min Scan# 2864

Delta R.T. -0.01 min

Lab File: BG046597.D

Acq: 11 Sep 2020 15:25

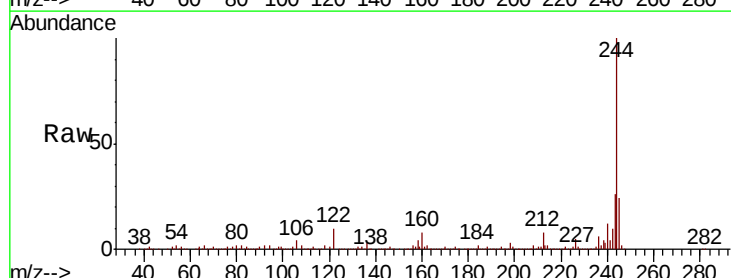
Tgt Ion:244 Resp: 1718138

Ion Ratio Lower Upper

244 100

212 8.5 6.9 10.3

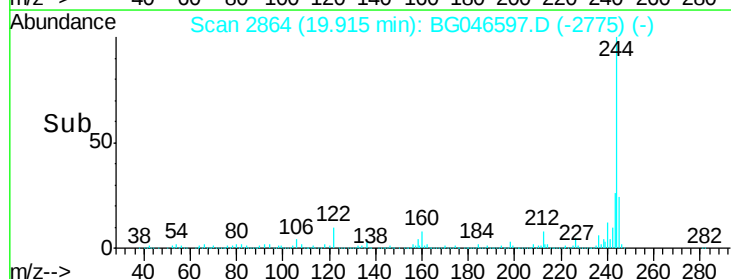
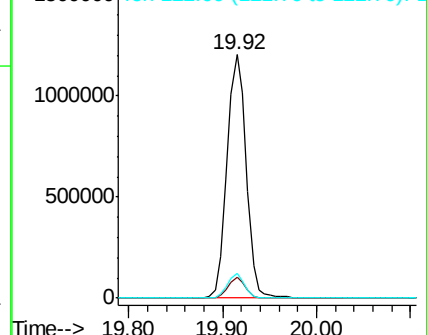
122 9.9 8.2 12.4

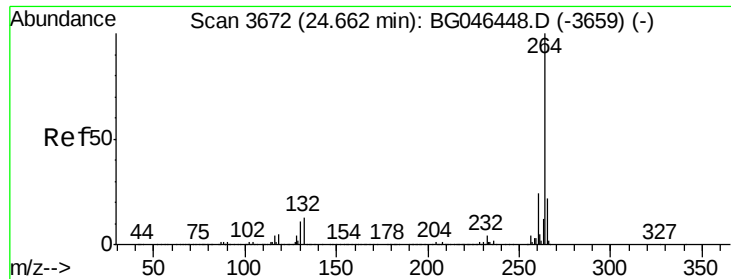


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

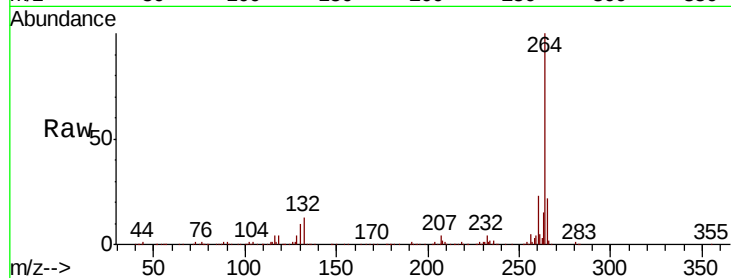




#86  
Pervlene-d12  
Concen: 20.000 ng  
RT: 24.65 min Scan# 3669  
Delta R.T. -0.01 min  
Lab File: BG046597.D  
Acq: 11 Sep 2020 15:25

Instrument :  
BNA\_G  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 23.3  | 19.2  | 28.8  |
| 265     | 22.4  | 17.9  | 26.9  |



Abundance

Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E

